

**Revised check-list of digger wasps (Hymenoptera:
Sphecidae) from the collection of N. Nedelkov
at the National Museum of Natural History in Sofia**

Toshko LJUBOMIROV

Introduction

High school teacher Nikola Nedelkov from Sofia published some of the first scientific reports on the Bulgarian sphecid wasp fauna (NEDELKOV, 1909; NEDELKOV, 1914). Before that only Dimitar Joakimoff (JOAKIMOFF, 1899) had reported five sphecid species in the Rila Mountain. Nedelkov did not restrict his study to a single group of insect families or to a single order. He discussed almost all main insect orders in his publications. This made the results obtained by Nedelkov rather doubtful as far as large groups were concerned, because at that time they were quite insufficiently studied from faunistic and taxonomic points of view (for instance, many Diptera; Homoptera; Hymenoptera: Ichneumonoidea, Chalcidoidea, Proctotrupoidea). However, most of the West-Palaearctic sphecid wasp species were already relatively well-known and their classification was almost completed. In species determination and reference making, Nedelkov used one of the best works on Sphecidae in Europe at that time - the work of Andrea Dahlbom (DAHLBOM, 1843-1845). Therefore, the sphecid material was to a great extent correctly determined and reported despite some misidentifications and misreports in Nedelkov's well-preserved and labelled collection containing 364 digger wasp specimens. The goal of the present study is to correct these misidentifications, to give a full list of the sphecid species reported by Nedelkov including data collected by the same author but unpublished so far. At present the whole collection of Nedelkov is deposited in five boxes in the entomological collection of the National Museum of Natural History in Sofia. The new species for the Bulgarian fauna established are marked with an asterisk.

The sphecid material in the publication of N. Nedelkov from 1909

In 1909 the paper of Nedelkov "Our Entomological Fauna" was published in the Archive of the Ministry of Education (Arhiv na Ministerstvoto na narodnoto prosveshtenie). There Hymenoptera together with many other insect groups (mostly Orthoptera and Coleoptera) was included in a list of 73 species, 11 of which were sphecids, as well as one undetermined Cerceris species. The sphecid material was collected by the author in Svishtov, Varna, Stara Zagora, Rhodope Mountains, Assenovgrad, Sozopol and Bourgas. Nedelkov also revised two small collections in Chirpan made by N. Botusharov and P. Dimitrov.

Sphecinae

***Sceliphron (Sceliphron) spirifex* (Linnaeus, 1758).** *Pelopaeus spirifex*: p. 125: VII, Varna, ♀1 ; Chirpan, (P. Dimitrov), no preserved material.

***Isodontia paludosa* (Rossi, 1790).** *Sphex paludosa*: p. 125: VII, Svishtov, no preserved material.

***Podalonia hirsuta* (Scopoli, 1763).** *Psammophila hirsuta*: p. 125: ?VI, Rhodope Mts.: near Bachkovski Monastery, 1 ♀. *Psammophila affinis*: p. 125: VII, Sredna Gora Mts, 2 ♂♂, misidentified.

***Ammophila heydeni* Dahlbom, 1845.** *Ammophila holosericea*: p. 125: VII, VIII, Bourgas, 1 ♀; Sozopol, no preserved material; Asenovgrad, no preserved material; Chirpan (N. Botusharov), no preserved material.

***Ammophila sabulosa* (Linnaeus, 1758).** *Ammophila sabulosa* (sic): p. 125: VII, Rhodope Mts, 1 ♂, 1 ♀; VIII, Rhodope Mts, 1 ♂.

Bembicinae

***Bembix oculata* Panzer, 1801.** *Bembex neglecta*: p. 125: VII, Varna, no preserved material; Bourgas, 1 ♀.

***Bembix olivacea* Fabricius, 1787.** *Bembex olivacei* (sic): p. 125: VII-VIII, Bourgas, 1 ♂, 1 ♀; ?VII, Varna, 2 ♀♀; Bourgas, 1 ♀.

Philanthinae

***Philanthus coronatus* (Thunberg, 1784).** *Philanthus coronatus*: p. 125: VII, Sredna Gora Mts., no preserved material.

***Philanthus triangulum* (Fabricius, 1775).** *Philanthus triangulum*: p. 125: VIII, Stara Zagora, 1 ♂; ?VII, ?1916, Bourgas, 1 ♀.

***Cerceris rubida* (Jurine, 1807).** *Cerceris* sp.: p. 124: Devnya, 1 ♀, erroneously designated by Nedelkov as male.

Cerceris sabulosa (Panzer, 1799). *Cerceris minuta*: p. 124: VIII, Stara Zagora, 1 ♂.

The sphecid material in the publication of N. Nedelkov from 1914

In his "Seventh Contribution to the Entomological Fauna of Bulgaria" Nedelkov reported at least 98 sphecid species under 104 specific names. In this paper he included material published in 1909 as well. The publication appeared in 1914 and contained only data on Hymenoptera. The material was collected by N. Nedelkov (from the vicinities of Sofia), by S. Kozarov (from Stara Zagora, Kyustendil, Kostenets, Sofia and vicinities), by D. Vezhev (from Bourgas), by K. Seizov (from Provadia), by T. Penev (from Pazardzhik), by P. Ramnarov (from Svishtov), and by I. Stribrni (from Sadovo).

Sphecinae

Sceliphron (Sceliphron) destillatorium (Illiger, 1807). *Sceliphron distillatorius* (sic): p. 199: VII, Vidin, 1 ♀; VII, Sofia, 1 ♂; VII, Pancharevo, 1 ♀; VII, Stara Zagora, 1 ♂, 1 ♀. *Sceliphron spirifex*: p. 199: V, Pazardzik, 1 ♀; VII, Stara Zagora, 1 ♀; VII, Bourgas, 1 ♀, misidentified. Unpublished material: VII, Kazanlak, 1 ♀, determined - *Sceliphron spirifex*; Sadovo, 1 ♀, determined: *Sceliphron spirifex*.

Sceliphron (Sceliphron) spirifex (Linnaeus, 1758). *Sceliphron spirifex*: p. 199: VII, Veliko Turnovo, 1 ♀; VII, Stara Zagora, 2 ♀♀. Unpublished material: VII, Kazanlak, 1 ♀, determined - *Sceliphron spirifex*; VIII, Sliven, 1 ♀, determined - *Sceliphron spirifex*; Stara Zagora, 2 ♀♀; Pazardjik, 1 ♂, 2 ♀♀.

Sphex (Sphex) funerarius Gussakovskij, 1934. *Sphex maxillosus*: p. 199: VII, Bourgas, 1 ♂.

Prionyx kirbii (Vander Linden, 1827). *Sphex albiseptus*: p. 199: VII, Pancharevo, 1 ♀; VI, Ihtiman, 1 ♂; VII, Rhodope Mts.: Batchkovski Monastery, 1 ♀; VII, Bourgas, 1 ♀.

Podalonia affinis (W. Kirby, 1798). *Psammophila tydei*: p. 199: VII, Rhodope Mts., 1 ♀, misidentified.

Podalonia fera (Lepeletier, 1845). *Psammophila tydei*: p. 199: VI, Pancharevo, 2 ♀♀; VIII, Sofia: Pancharevo sub. 1 ♀; VII, Stara Zagora, 1 ♀, misidentified.

Podalonia hirsuta (Scopoli, 1763). *Psammophila affinis*: p. 199: VII, Sredna Gora Mts., 2 ♂♂, misidentified. *Psammophila hirsuta*: p. 199: Sredna Gora Mts., 1 ♂; 1 ♀: VIII, Rila Mtn: Rilski Monastery, 1 ♀; VIII, Rila Mtn: Samokov, 1 ♀; Pazardzik, 2 ♂♂; VII, Stara Planina Mts., 2 ♂♂, 1 ♀; VII, Sofia, 2 ♀♀; VII, Pancharevo, 1 ♀. *Psammophila tydei*: p. 199: VII, Rhodope Mts., 1 ♂;

V, Lyulin Mtn., 1 ♀; VI, Pancharevo, 1 ♀; VII, Pancharevo, 1 ♂; VI, Ihtiman, 3 ♂♂, 2 ♀♀; Byala Tcherkva, 1 ♂; IV, Sofia, 1 ♀; VI, Sofia, 1 ♀; VI, Rhodope Mts.: Batchkovski Monastery, 1 ♀, misidentified. Unpublished material: V, Lyulin Mtn, 1 ♀, determined: *Psammophila hirsuta*.

***Podalonia tydei* (Le Guillou, 1841).** *Psammophila tydei*: p. 199: VII, Svishtov, 1 ♂; VI, Sofia: Pancharevo sub., 1 ♂.

***Ammophila heydeni* Dahlbom, 1845.** *Ammophila campestris*: p. 199: VII, Pancharevo, 1 ♂, misidentified. *Ammophila heydeni*: p. 199: VI, Svoge, 1 ♀; VII, Pancharevo, 3 ♀♀; Pancharevo, 1 ♂; Sredna Gora Mts., 1 ♂, 1 ♀; VII, Haskovo, 1 ♂; VII, Bourgas, 1 ♀. Unpublished material: VIII, Pancharevo, 1 ♂, 1 ♀, determined - *Ammophila heydeni*; VIII.

***Ammophila sabulosa* (Linnaeus, 1758).** *Ammophila apicalis*: p. 199: VI, Svoge, 1 ♂; VI, Sofia: Vladaya sub., 1 ♂ (LJUBOMIROV, 2000b); VI, Vitosha Mtn., 3 ♂♂ (LJUBOMIROV, 2000b); V, Rhodope Mts., 1 ♂, misidentified. *Ammophila sabulosa*: p. 199: Vratsa, 1 ♂; VI, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b); VII, Vitosha Mtn., 1 ♂ (LJUBOMIROV, 2000b); VI, Sredna Gora Mts., 1 ♂; VI, Rila Mtn., 2 ♂♂; VII, Rila Mtn., 2 ♀♀; VIII, Rila Mtn.: Borovets, 1 ♂, 1 ♀; VII, Rhodope Mts., 1 ♂, 1 ♀; VIII, Rhodope Mts., 1 ♂.

Pemphredoninae

***Mimesa* sp.** *Mimesa bicolor*: p. 199: VII, Svishtov, 1 ♂. It is impossible to determinate the correct specific appurtenance - the material is damaged.

****Mimumesa atratina* (F. Morawitz, 1891).** *Mimesa bicolor*: p. 199: VII, Pancharevo, 1 ♂, misidentified. *Mimesa dahlbomi*: p. 199: VII. Pancharevo, 2 ♂♂, misidentified. Unpublished material: VIII, Pancharevo, 1 ♀, determined - *Mimumesa dahlbomi*.

***Mimumesa dahlbomi* (Wesmael, 1852).** *Mimesa dahlbomi*: p. 199: V, Sofia, 1 ♂.

***Mimumesa unicolor* (Vander Linden, 1829).** *Mimesa unicolor*: p. 199: VII, Pancharevo, 2 ♂♂, 1 ♀.

***Mimumesa* sp.** *Mimesa unicolor*: p. 199: VII, Pancharevo, 1 ♀. It is impossible to determinate the correct specific appurtenance - the material is damaged.

***Psenulus fuscipennis* (Dahlbom, 1843).** *Psenulus fuscipennis*: p. 199: V, Sofia, 1 ♀; VI, Sofia, 1 ♀.

***Psenulus pallipes* (Panzer, 1798).** *Mimesa unicolor*: p. 199: V, Sofia, 1 ♀, misidentified. *Psenulus atratus*: p. 199: VII, Pancharevo, 1 ♂, 1 ♀. *Psenulus fuscipennis*: p. 199: VI, Sofia, 2 ♀♀; VII, Stara Zagora, 2 ♂♂, determined as females, misidentified. Unpublished material: IV, Sofia, 3 ♀♀, determined - *Psenulus fuscipennis*; VI, Sofia, 1 ♀, determined - *Psenulus* sp.

***Diodontus minutus* (Fabricius, 1793).** *Diodontus luperus*: p. 196: V, Sofia, 1 ♀, misidentified.

Pemphredon inornata Say, 1824. Unpublished material: IV, Sofia, 1 ♀; V, Sofia, 1 ♀; VII, Sofia, 2 ♂♂; Sofia, 2 ♂♂. All six specimens determined - *Pemphredon* sp.

Pemphredon lethifer (Shuckard, 1837). Unpublished material: VIII, Vitosha Mtn.: Bistritsa vill., 1 ♀, (LJUBOMIROV, 2000b); VI, Sofia, 1 ♀; VII, Sofia, 1 ♀; VII, Pancharevo, 1 ♂, 1 ♀; Pancharevo, 1 ♀. All six specimens determined - *Pemphredon* sp.

Pemphredon lugubris (Fabricius, 1793). *Pemphredon lugubris*: p. 196: VIII, Sofia, 1 ♀.

Pemphredon morio Vander Linden, 1829. *Pemphredon clypealis* Thomson: VI, Sofia, 1 ♀.

Pemphredon rugifer Dahlbom, 1844. Unpublished material: IV, Sofia, 1 ♀; V, Sofia, 1 ♀, determined - *Pemphredon* sp.

Passaloecus corniger Shuckard, 1837. *Passaloecus corniger*: p. 196: VI, Sofia, 1 ♀. *Pemphredon clypealis*: p. 196: V, Sofia, 1 ♀, misidentified.

Passaloecus gracilis (Curtis, 1834). *Passaloecus brevicornis*: p. 196: V, Sofia, 1 ♂. *Passaloecus eremita*: p. 196: VI, Sofia, 1 ♂, erroneously designated by Nedelkov as a female, misidentified. *Pemphredon clypealis*: p. 196: VI, Sofia, 1 ♀, misidentified.

***Passaloecus pictus** Ribaut, 1952. *Passaloecus brevicornis*: p. 196: V, Sofia, 2 ♀♀.

Passaloecus singularis Dahlbom, 1844. *Passaloecus tenuis*: p. 196: ?VIII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b). *Stigmus solskyi*: p. 196: V, Sofia, 1 ♂, misidentified.

Stigmus (Stigmus) solskyi A. Morawitz, 1864. *Stigmus solskyi*: p. 196: V, Sofia, 9 ♂♂; VI, Sofia, 1 ♂; VI, Sofia, 1 ♂, erroneously designated by Nedelkov as a female; Sofia, 1 ♀. Unpublished material: IV, Sofia, 1 ♀, determined - *Stigmus solskyi*.

Astatainae

Astata jucunda Pulawski, 1959. *Astata boops*: p. 198: VII, Pancharevo, 1 ♂. *Astata minor*: p. 198: VII, Pancharevo, 1 ♀, misidentified.

Astata minor (Kohl, 1885). *Astata minor*: p. 198: VI, Sofia, 1 ♂. Unpublished material: VI, Sofia, 1 ♂.

Astata rufipes Mocsary, 1883. *Astata rufipes*: p. 198: VII., Pancharevo, 1 ♀. Unpublished material: VIII, Pancharevo, 1 ♂, determined - *Astata minor*.

***Dryudella picticornis** (Gussakovskij, 1927). *Astata stigma*: p. 198: VII, Pancharevo, 1 ♀.

Dinetus pictus (Fabricius, 1793). *Dinetus pictus*: p. 196: VI, Vratchanska Mtn.: Rebarkovo vill., 1 ♂; VII, Pancharevo, 1 ♀.

Crabroninae

Larra (Larra) anathema (Rossi, 1790). *Larra anathema*: p. 198: VII, Stara Zagora, 1 ♂; Bourgas, 1 ♂.

Liris (Leptolarra) niger (Fabricius, 1775). *Notogonia pompiliformis*: p. 198: VII, Pancharevo, 1 ♀.

Tachytes panzeri Dufour, 1841. *Tachytes europaeus*: p. 197: VII, Pancharevo, 1 ♀.

Tachysphex panzeri (Vander Linden, 1829). *Tachysphex panzeri*: p. 198: VII, Pancharevo, 1 ♀.

Tachysphex pompiliformis (Panzer, 1804). *Tachysphex pygidialis*: p. 197: VI, Pancharevo, 1 ♀, misidentified. *Tachysphex panzeri*: p. 198: VII, Pancharevo, 1 ♀, misidentified. *Tachysphex pectinipes*: p. 198: VI, Ichtiman, 1 ♀.

Palarus variegatus (Fabricius, 1781). *Palarus flavipes*: p. 197: VII, Pancharevo, 1 ♂; VII, Ichtiman, 1 ♀.

Trypoxyylon (Trypoxyylon) attenuatum F. Smith, 1851. *Trypoxyylon attenuatum*: p. 199: V, Sofia, 1 ♀.

Trypoxyylon (Trypoxyylon) clavicerum Lepeletier et Serville, 1828. *Trypoxyylon clavicerum*: p. 199: VII, Plana Mtn.: German, 1 ♀.

Trypoxyylon (Trypoxyylon) figulus (Linnaeus, 1758). *Trypoxyylon figulus*: p. 199: V, Sofia, 1 ♀; VI, Sofia, 1 ♀; VII, Sofia, 1 ♀; VII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b).

Trypoxyylon (Trypoxyylon) kolazyi Kohl, 1893. *Trypoxyylon clavicerum*: p. 199: IV, Sofia, 1 ♀, misidentified.

***Trypoxyylon (Trypoxyylon) latilobatum** Antropov, 1991. *Trypoxyylon figulus*: p. 199: VII, Pancharevo, 1 ♀.

Trypoxyylon spp. *Trypoxyylon figulus*: p. 199: V, Sofia, 1 ♀; VIII, Stara Zagora, 1 ♀, (both specimens are hardly damaged).

Oxybelus bipunctatus Olivier, 1812. *Oxybelus bipunctatus*: p. 196: VII, Sofia, 4 ♀♀. Unpublished material: VIII, Pancharevo, 1 ♀.

Oxybelus latro Olivier, 1812. *Oxybelus latro*: p. 196: VI, Ichtiman, 1 ♀. *Oxybelus latidens*: p. 196: VI, Ichtiman, 1 ♂, erroneously designated by Nedelkov as a female, misidentified.

Oxybelus mandibularis Dahlbom, 1845. *Oxybelus pulchellus*: p. 196: VII, Pancharevo, 1 ♂, misidentified.

Oxybelus mucronatus (Fabricius, 1793). Unpublished material: VII, Stara Zagora, 1 ♂.

Oxybelus occitanicus Marquet, 1896. *Oxybelus pulchellus*: p. 196: VII, Pancharevo, 1 ♂, misidentified.

Oxybelus quattuordecimnotatus Jurine, 1807. *Oxybelus quattuordecimnotatus*: p. 196: VII, Sofia, 1 ♀; Ichtiman, 1 ♀, erroneously designated by Nedelkov as a male; VII, Pancharevo, 1 ♀. *Oxybelus pulchellus*: p. 196: VII,

Pancharevo, 1 ♂, misidentified. Unpublished material: VIII, Pancharevo, 1 ♀, determined - *Oxybelus quattuordecimnotatus*.

***Oxybelus variegatus* Wesmael, 1852.** *Oxybelus pulchellus*: p. 196: VII, Pancharevo, 4 ♂♂; Pazardzik, 1 ♂.

***Entomognathus (Entomognathus) brevis* (Vander Linden, 1829).** *Crossocerus exiguus*: VII, Pancharevo, 1 ♂, erroneously designated by Nedelkov as a female, misidentified. Unpublished material: VII, Pancharevo, 2 ♂♂, 2 ♀♀, determined - *Crabro brevis*.

***Lindenius albilabris* (Fabricius, 1793).** *Lindenius albilabris*: p. 196: VI, Svoge, 1 ♂; VI, Sofia, 1 ♂; VII, Pancharevo, 1 ♂, 2 ♀♀; Pancharevo, 1 ♂; Stara Zagora, 1 ♂.

***Lindenius laevis* A. Costa, 1871.** *Lindenius albilabris*: p. 196: VI, district of Sofia, 1 ♀, misidentified.

***Rhopalum (Corynopus) coarctatum* (Scopoli, 1763).** *Rhopalum tibialis*: p. 196: V, Sofia, 1 ♀; VI, Sofia, 1 ♂.

***Crossocerus (Acanthocrabro) vagabundus* (Panzer, 1798).** *Cuphopterus vagabundus*: p. 196: ?IV, Sofia, 1 ♂.

***Crossocerus (Blepharipus) annulipes* (Lepeletier & Brullé, 1834).** *Coelocrabro gonager*: p. 196: VI, Sofia, 1 ♂; Sofia: Knyazhevo sub., 1 ♀.

***Crossocerus (Blepharipus) megacephalus* (Rossi, 1790).** *Coelocrabro leucostoma*: p. 196: ?VIII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b). *Coelocrabro barbipes*: p. 196: Sofia: Dragalevtsi sub., 1 ♀ (LJUBOMIROV, 2000b), misidentified.

***Crossocerus (Crossocerus) exiguus* (Vander Linden, 1829).** *Crossocerus wesmaeli*: p. 196: Sofia, 1 ♀, misidentified.

***Crossocerus (Hoplocrabro) quadrimaculatus* (Fabricius, 1793).** *Hoplocrabro quadrimaculatus*: p. 196: VII, Sofia, 1 ♀; Sofia, 2 ♀♀.

***Crabro (Crabro) cribrarius* (Linnaeus, 1758).** *Thyreopus cribrarius*: p. 196: VII, Stara Planina Mts., 2 ♂♂, 1 ♀; VI, Rila Mtn., 1 ♂; ? "Godoyk", 1 ♀.

***Crabro (Crabro) peltarius* (Schreber, 1784).** *Thyreopus peltarius*: p. 196: VI, Sofia, 1 ♂; VI, Ihtiman, 1 ♂.

***Crabro (Crabro) scutellatus* (Scheven, 1781).** *Thyreopus scutellatus*: p. 196: V, Pancharevo, 1 ♂.

***Ectemnius (Clytochrysus) cavifrons* (Thomson, 1871).** *Clytochrysus planifrons*: p. 195: V, Sofia, 1 ♂.

***Ectemnius (Clytochrysus) lapidarius* (Panzer, 1804).** *Thyreopus peltarius*: p. 196: VII, Troyan, 1 ♀, misidentified.

***Ectemnius (Ectemnius) dives* (Lepeletier & Brullé, 1834).** *Ectemnius dives*: p. 195: VII, Pancharevo, 1 ♀. *Hoplocrabro quadrimaculatus*: p. 196: Sofia, 1 ♀, misidentified.

***Ectemnius (Hypocrabro) continuus* (Fabricius, 1804).** *Solenius vagus*: p. 195: VI, Svoge, 1 ♂; Sadovo, 1 ♂.

***Ectemnius (Hypocrabro) hypsae* (de Stefani, 1894).** *Solenius vagus*: p. 195: Sadovo, 1 ♀, misidentified.

***Ectemnius (Hypocrabro) meridionalis* (A. Costa, 1871).** *Thyreus clypeatus*: p. 195: VI, Stara Zagora, 1 ♀, misidentified.

***Ectemnius (Metacrabro) cephalotes* (Olivier, 1792).** *Crabro quadricinctus*: p. 195: ?V, Sofia, 1 ♀; VII, Sofia, 3 ♀♀; IX, Sofia, 1 ♀; Sofia, 1 ♀; Sadovo, 1 ♂, 1 ♀, misidentified.

***Lestica (Ceratocolus) alata* (Panzer, 1797).** *Ceratocolus alatus*: p. 195: Ihtiman, no preserved material. Unpublished material: VII, Stara Zagora, 1 ♂, determined - *Ceratocolus subterraneus*.

***Lestica (Clypeocrabro) clypeata* (Schreber, 1759).** *Thyreus clypeatus*: p. 195: VII, Svishtov, 1 ♀; VII, Vratsa, 1 ♀; ?VI, Sofia, 1 ♂; VII, Sofia, 1 ♂; VII, Pancharevo, 1 ♂, 2 ♀♀; VIII, Pancharevo, 1 ♂; Pazardzik, 1 ♀; Stara Zagora, 1 ♂; Haskovo, 1 ♀.

***Lestica (Lestica) subterranea* (Fabricius, 1775).** *Ceratocolus subterraneus*: p. 195: VI, Ihtiman, 1 ♀.

Bembicinae

***Mellinus arvensis* (Linnaeus, 1758).** *Mellinus arvensis*: p. 197: ?VIII, Rila Mtn.: Rilsky Monastery, 1 ♀. *Mellinus sabulosus* var. *a*: p. 197: VII, Rila Mtn., 1 ♂, misidentified. *Hoplisus laticinctus*: p. 197: VII, Sofia, 1 ♀, misidentified.

***Alysson spinosus* (Panzer, 1801).** *Alysson fuscatus*: p. 197: VII, Pancharevo, 3 ♀♀; VII, Varna, 1 ♀, (LJUBOMIROV, 2000a). *Alysson pertheesi*: p. 197: VII, Pancharevo, 1 ♂, (LJUBOMIROV, 2000a), misidentified. *Alysson ratzeburgi*: p. 197: Pancharevo, 4 ♂♂, (LJUBOMIROV, 2000a), misidentified. Unpublished material: VIII, Pancharevo, 1 ♂, determined - *Alysson ratzeburgi*, (LJUBOMIROV, 2000a).

***Didineis lunicornis* (Fabricius, 1798).** *Didineis lunicornis*: p. 197: VII, Pancharevo, 1 ♂, (LJUBOMIROV, 2000a).

***Nysson maculosus* (Gmelin, 1790).** *Nysson maculatus*: p. 197: VII, Varna, 1 ♀.

***Brachystegus scalaris* (Illiger, 1807).** *Nysson spinosus*: p. 197: VII, Pancharevo, 1 ♂, misidentified.

****Argogorytes fargeii* (Shuckard, 1837).** *Gorytes quadrifasciatus*: p. 197: VII, Stara Zagora, 2 ♂♂, misidentified.

***Harpactus elegans* (Lepeletier, 1832).** *Harpactes elegans*: p. 197: VI, Pancharevo, 1 ♂, 1 ♀.

***Gorytes quinquecinctus* (Fabricius, 1793).** *Hoplisus fallax*: p. 197: V, Sofia, 1 ♂, misidentified. *Hoplisus quinquefasciatus*: p. 197: VII, Pancharevo, 1 ♂, misidentified.

***Gorytes planifrons* (Wesmael, 1852).** *Hoplisus fallax*: p. 197: VI, Svoge, 1 ♀, misidentified.

***Lestiphorus bicinctus* (Rossi, 1794).** *Lestiphorus bicinctus*: p. 197: VII, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b).

Ammatomus coarctatus (Spinola, 1808). Unpublished material: VII, Stara Zagora, 3 ♀♀.

Stizus bipunctatus (F. Smith, 1856). *Stizus terminalis*: p. 197: VII, Stara Zagora, 1 ♂.

Bembecinus tridens (Fabricius, 1781). *Stizus tridens*: p. 197: VI, Pancharevo, 2 ♀♀; VII, Pancharevo, 1 ♂.

Bembix bicolor (Radoszkowsky, 1877). *Bembex oculata*: p. 197: Pazardzik, 1 ♀, misidentified.

Bembix bidentata (Vander Linden, 1829). *Bembex bidentata*: p. 196: VII, Bourgas, 3 ♂♂. *Bembex megerlei*: p. 197: V, Sadovo, 1 ♂, misidentified. *Bembex rostrata*: p. 197: VII, Asenovgrad, 1 ♀, misidentified.

Bembix megerlei (Dahlbom, 1845). *Bembex megerlei*: p. 197: VII, Bourgas, 6 ♂♂. *Bembix integra*: p. 197: Bourgas, 2 ♀♀, misidentified.

Bembix oculata (Panzer, 1801). *Bembex oculata*: p. 197: VII, Bourgas, 1 ♀.

Bembix olivacea (Fabricius, 1787). *Bembex mediterranea*: p. 197: Svishtov, 1 ♀; VII, Bourgas, 1 ♂, 1 ♀; Bourgas, 1 ♀. *Bembex oculata*: p. 197: ?VII, Varna, 2 ♀♀, misidentified. Unpublished material: VI, Svoge, 1 ♂.

Bembix rostrata (Linnaeus, 1758). *Bembex rostrata*: p. 197: VI, Svoge, 2 ♂♂; VI, Pancharevo, 1 ♀; VII, Pancharevo, 1 ♀.

Bembix tarsata (Latreille, 1809). *Bembix integra*: p. 197: VI, Svoge, 1 ♂; VI, Vitosha Mtn., 1 ♀ (LJUBOMIROV, 2000b); VII, Varna, 2 ♀♀.

Philanthinae

Philanthus coronatus (Thunberg, 1784). *Philanthus venustus*: p. 198: VI, Iskar Riverside, 1 ♂, misidentified. Unpublished material: 1 ♀, no further data.

Philanthus triangulum (Fabricius, 1775). *Philanthus triangulum*: p. 198: VIII, Stara Zagora, 1 ♂.

Philanthus venustus (Rossi, 1790). *Philanthus venustus*: p. 198: VII, Pancharevo, 1 ♂. *Philanthus coronatus*: p. 198: VII, Bourgas, 1 ♀, misidentified.

Cerceris bracteata Eversmann, 1849. *Cerceris bucculata*: p. 198: VII, Pancharevo, 1 ♀, misidentified.

Cerceris flavidornis Brullé, 1833. *Cerceris conigera*: p. 198: VII, Stara Zagora, 1 ♂.

Cerceris flavilabris (Fabricius, 1793). *Cerceris arenaria*: p. 198: VI, Sofia district, 1 ♂; VIII, Vidin, 1 ♂, misidentified.

Cerceris interrupta (Panzer, 1799). *Cerceris labiata*: p. 198: VII, Pancharevo, 1 ♀.

Cerceris lunata A. Costa, 1869. *Cerceris hortivaga*: p. 198: VII, Stara Zagora, 1 ♂, misidentified.

Cerceris quadricincta (Panzer, 1799). *Cerceris quadricincta*: p. 198: VII, Pancharevo, 1 ♀; Pazardzik, 1 ♂. *Cerceris quadrifasciata*: p. 198: VII, Stara

Zagora, 1 ♂; VI, Pazardzik, 1 ♂, misidentified.

Cerceris quadriasciata (Panzer, 1799). *Cerceris quadriasciata*: p. 198: VI, Vitosha Mtn., 1 ♂ (LJUBOMIROV, 2000b).

Cerceris quinqueasciata (Rossi, 1792). *Cerceris arenaria*: p. 198: VII, Pancharevo, 2 ♂♂, misidentified. *Cerceris labiata*: p. 198: VII, Pancharevo, 1 ♀. *Cerceris stratiotes*: p. 198: VII, Pancharevo, 2 ♂♂, misidentified.

Cerceris rubida (Jurine, 1807). *Cerceris rybyensis*: p. 198: VIII, Devnya, 1 ♀, misidentified.

Cerceris ruficornis (Fabricius, 1793). *Cerceris labiata*: p. 198: VII, Pancharevo, 1 ♀. Unpublished material: Sofia, 1 ♂; Pancharevo, 1 ♂; VII, Pancharevo, 1 ♂; VIII, Pancharevo, 1 ♂. All four specimens determined - *Cerceris conigera*.

Cerceris rybyensis (Linnaeus, 1771). *Cerceris rybyensis*: p. 198: VI, Vitosha Mtn., 1 ♂ (LJUBOMIROV, 2000b).

Cerceris sabulosa (Panzer, 1799). *Cerceris rybyensis*: p. 198: VII, Pancharevo, 2 ♂♂; VIII, Stara Zagora, 1 ♂; VII, Haskovo, 1 ♀, misidentified. Unpublished material: VI, Sofia district, 1 ♀, determined - *Cerceris* sp.; VI, Rhodope Mts., 1 ♂, determined - *Cerceris rybyensis*; 2. VI, 1903, Sliven, 1 ♂; VIII, Ichtiman, 1 ♀.

Cerceris stratiotes Schletterer, 1887. *Cerceris stratiotes*: p. 198: VI, Ichtiman, 1 ♀. *Cerceris rybyensis*: p. 198: VI, Ichtiman, 1 ♀, misidentified.

Cerceris tuberculata (Villers, 1789). *Cerceris tuberculata*: p. 198: Elena, 1 ♂.

References

- DAHLBOM A. 1843-1845. Hymenoptera Europaea praecipue borealia; formis typicis nonnullis Specierum Generum Exoticorum aut Extraneorum propter nexum systematicus associatis; per Familias, Genera, Species et Varietates disposita atque descripta. Tomus: Sphecius in sensu Linneano. Lund, Officina Lundbergiana. XLIV + 528 p.
- JOAKIMOFF D. 1899. Contribution to the insect fauna of Rila Mountain. - Periodische Zeitschrift, 59: 758-778, 858-884. (In Bulgarian).
- LJUBOMIROV T. 2000a. Overview of the species composition and the distribution of the digger wasp tribe Alyssontini (Hymenoptera: Sphecidae) from Bulgaria - Acta zool. bulg., 51 (1): 21-23.
- LJUBOMIROV T. 2000b. Preliminary studies on the digger wasp fauna (Insecta: Hymenoptera: Sphecidae) in Vitosha Mountain. - Acta zool. bulg., 51 (2-3): 43-59.
- NEDELKOV N. 1909. Our entomological fauna. - Arhiv Min. nar. prosv., 1 (3): 83-135. (In Bulgarian).
- NEDELKOV N. 1914. Seventh contribution to the entomological fauna of Bulgaria. - Revue Acad. bulg. Sci., 9: 181-210. (In Bulgarian).

Received on 22.11.1999

Author's address:
Toshko Ljubomirov
Institute of Zoology
1, Tsar Osvoboditel Blvd
1000 Sofia, Bulgaria

**Ревизиран списък на видовете риещи оси
(Hymenoptera: Sphecidae) от сбирката на Н. Неделков
в Националния природонаучен музей в София**

Тошко ЛЮБОМИРОВ

(Р е з ю м е)

На базата на прегледания материал от 364 сфецидни екземпляра от сбирката на гимназиалния учител и ентомолог Никола Неделков са направени редица поправки върху публикациите му от 1909 и 1914 година и са представени данни от събиран от този автор материал, които не са били публикувани досега. Съобщенията от Неделков 108 вида са сведени до 107 вида от 45 рода.